

**PATENT CLAIMS**

1. Distributor device for cellulose pulp in the consistency range of 2 to 12%, which distributor device is used to form a uniform pulp web running from the distributor device in an apparatus treating the cellulose pulp, preferably a wash press, and where the distributor device comprises
- a cylindrical distributor housing with its cylinder axis arranged horizontally and transverse to the web of pulp,
  - an inlet for the cellulose pulp in the distributor housing,
  - a rotating feed screw with its axis of rotation parallel to the cylinder axis of the distributor housing and designed to feed pulp from the inlet and along the entire length of the distributor housing in the direction of its cylinder axis, and
  - outlets arranged substantially along a generatrix in the jacket surface of the distributor housing,
- characterized in that the outlets consist of holes arranged along the generatrix in the jacket surface of the distributor housing, with a defined hole diameter (d), and where the holes are arranged at a distance (x) from each other.
2. Distributor device according to Claim 1, characterized in that the distance (x) exceeds the hole diameter (d).
3. Distributor device according to Claim 1 or 2,

characterized in that the hole diameter lies in the range of 20 to 60 mm, preferably with hole diameters of  $40 \pm 5$  mm.

- 5    4.    Distributor device according to Claim 3, characterized in that the hole diameter increases continuously as seen from the inlet of the distributor housing.
- 10   5.    Distributor device according to Claim 3, characterized in that the holes are distributed evenly across the entire width of the pulp web formed from the distributor device.
- 15   6.    Distributor device according to Claims 2 to 5, characterized in that the distance between the holes lies in the range of 40 to 90 mm, preferably at a distance of  $75 \pm 5$  mm, and where the distance is at least 150% of the hole diameter.
- 20   7.    Distributor device according to Claim 1 or 3, characterized in that the holes are arranged in the lowest part of the jacket surface of the distributor housing directed substantially straight down from the distributor housing about a position corresponding to 6 o'clock, and within an area of rotation in the range of  $\pm 45$  degrees.
- 25   8.    Distributor device according to Claim 1 or 3, characterized in that the feed screw (4a, 4b) has a screw thread (15) whose crests, during operation, sweep across the holes at a predefined distance (Y) from the holes (7) in the inner jacket surface of the distributor housing, which distance lies in the range of 5 to 20 mm, preferably  $10 \pm 2$  mm.
- 30   9.    Distributor device according to any of the preceding claims, characterized in that the feed
- 35

5 screw (4a, 4b) has a core (14) with a diameter increasing continuously from the inlet (6a, 6b), and the annular gap around the feed screw, in which the pulp is conveyed, decreases continuously as seen from the inlet of the distributor housing.

10. Distributor device according to Claim 6 or 7, characterized in that the feed screw (4a, 4b) has a decreasing thread pitch on its screw blade (15).